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Date : 2013/ 10/ 16

Approval Sheet

Description : **I-PEX +OD1.13+110mm,3M 背膠**

Model No : **GEPH-023**

Part No :

Received & Approved by

ON ____ date ____ month ____ year



新禾航電股份有限公司
SAN JOSE TECHNOLOGY, INC.

11F, No. 2, Sec. 4, Jhongyang Rd., Tucheng City, Taipei County, Taiwan(R.O.C), 236

Tel : +886-2-2269-4456

Fax : +886-2-2269-4451

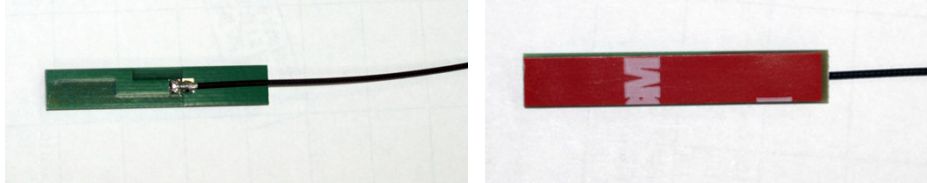
E-mail : sanav@sanav.com

<http://www.sanav.com>

Approved by	Checked by	Issued by	
	<i>Sky</i>	<i>Lily Chen</i>	

表單編號 : FM-RD-012 A1

SPECIFICATION

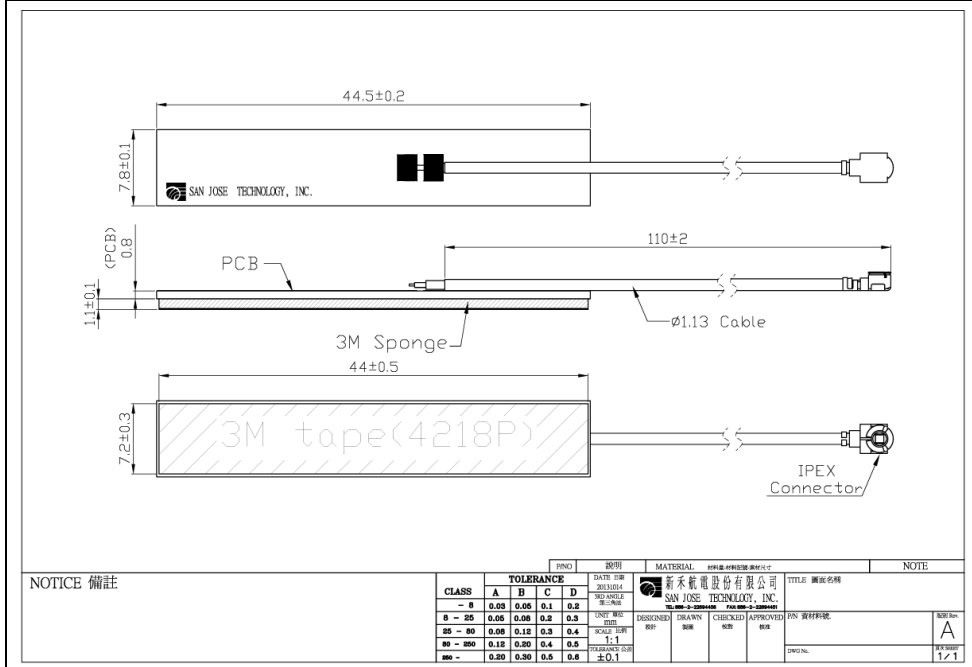


1.Description	Wlan Antenna
2.Part Number	GEPH-023
3.Mechanical Characteristics	
Connector Type	I-PEX
Cable	OD1.13(Black)
Length	110mm±2mm
Sponge Tape	3M 4218P
Appearance	See attached drawing
4.Electrical Characteristics	
Operating Frequency	2400~2500MHZ,5150~5850MHZ
Impedance	50ohm
Polarization	Linear
Gain	See Fig-3
5.Operating Temperature	-30℃ -80℃
6.Storage Temperature	-40℃ -85℃



ELECTRICAL CHARACTERISTICS 電氣特性		
ITEM 項目	TEST CONDITION 測試環境	SPECIFICATION 規格
1 RETURN LOSS 反射損耗	Using Anritsu Network Analyzer MS-4623B to Measure Antenna S11 Return loss Characteristics 使用 Anritsu 網路分析儀 MS-4623B 測量天線 S11 之返回損耗參數	See Fig-1
2 VSWR 電壓駐波比	Using Anritsu Network Analyzer MS-4623B to Measure Antenna S11 VSWR Characteristics 使用 Anritsu 網路分析儀 MS-4623B 測量天線 S11 之電壓駐波參數	See Fig-2

	發行日期:	A1.0
	修正日期:	
	受控日期	
品名: GEPH-023 Wlan Antenna	客戶: Partner	規格



Operating Frequency :
 2400~2500MHz
 5150~5850MHz

Impedance: 50ohm

Connector: I-PEX

檢驗項目	品質要求	檢驗方式	檢驗標準
外觀	不可有明顯刮傷、破損	目視(亮度 100Lux, 正常視力, 視距 30cm, 視角 30°-80°)	參照樣品
尺寸	尺寸如示意圖: 長度 44.5mm X 寬 7.8mm 線材部份: 長 110mm +/-2mm	1. 游標卡尺 2. 捲尺	承認書
機械性能		1. 拉力計 2. 高斯計	承認書
電氣性能	Transmission	1. 網路分析儀	承認書

Antenna Return Loss:

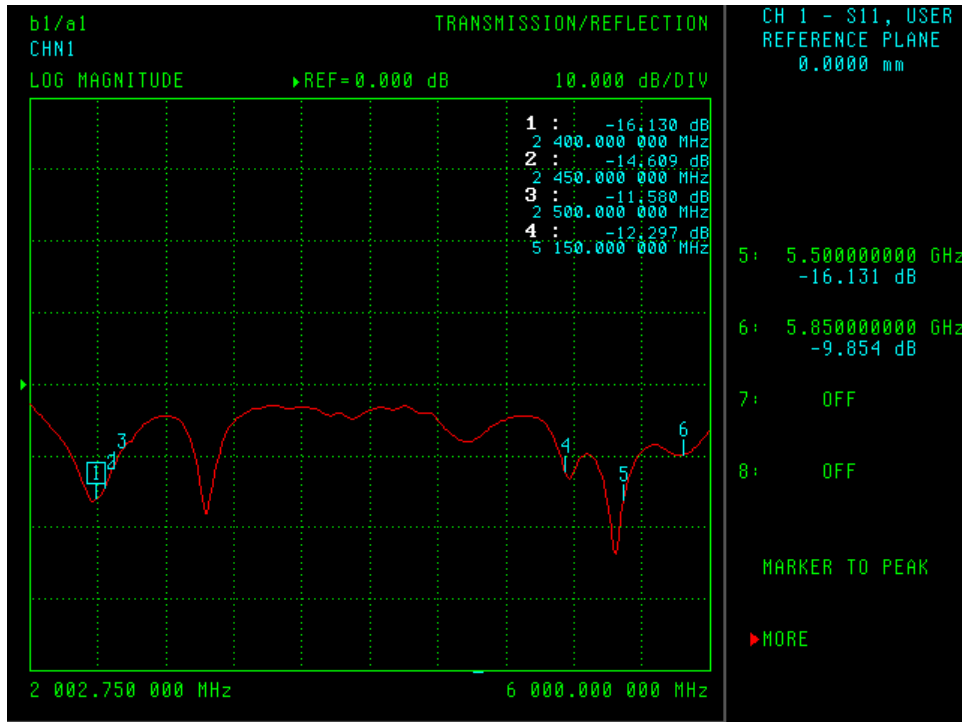


Fig-1

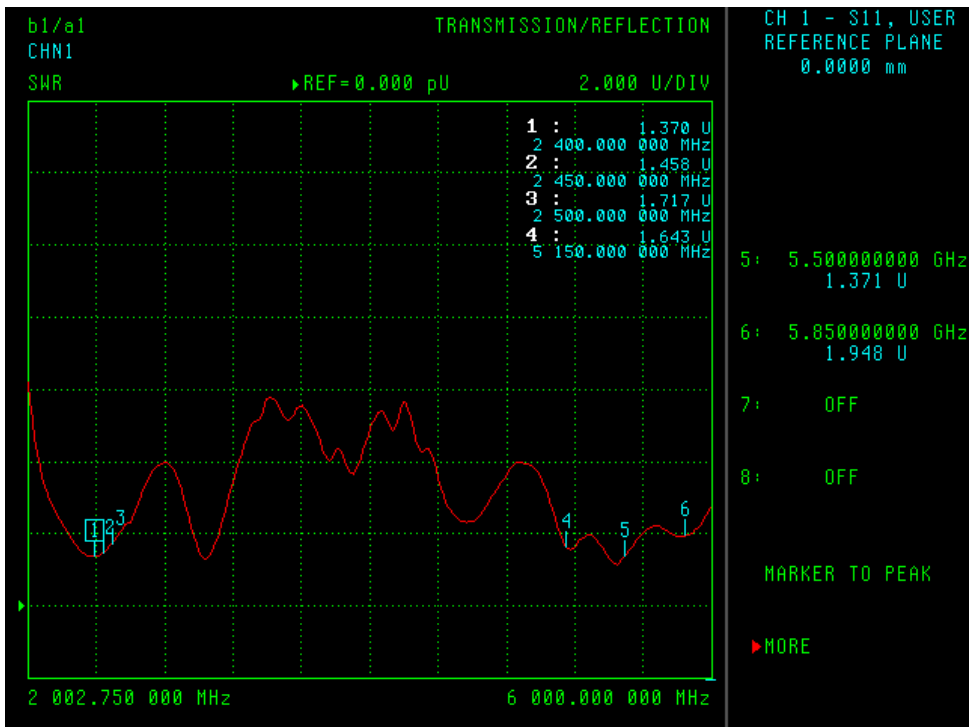
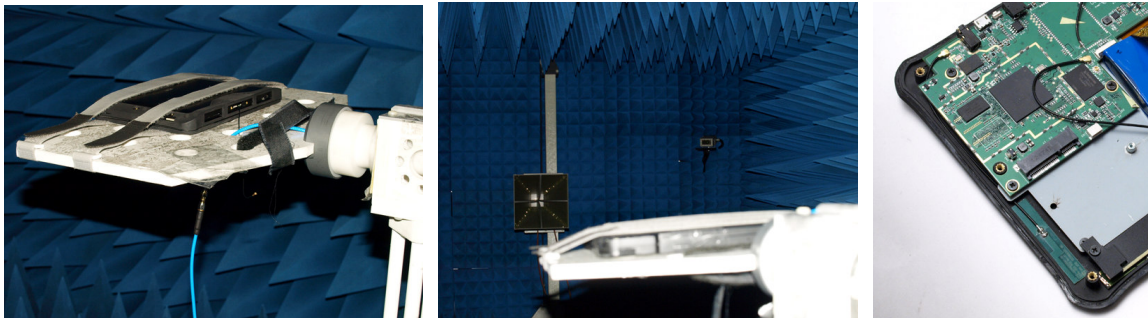


Fig-2

Antenna Gain:

This 3D Gain Report is scanned in SANAV 3D chamber, under CTIA regulation.



Frequency (MHz)	2400	2450	2500	5150	5500	5850
Tot. Rad. Pwr. (dBm)	-3.03	-2.42	-3.01	-3.68	-2.49	-1.37
Peak EIRP (dBm)	2.39	2.88	3.03	0.88	3.64	5.74
Directivity (dBi)	5.42	5.29	6.04	4.55	6.13	7.1
Efficiency (dB)	-3.03	-2.42	-3.01	-3.68	-2.49	-1.37
Gain (dBi)	2.39	2.88	3.03	0.88	3.64	5.74
Boresight Phi (°)	165	165	180	30	165	120
Boresight Th. (°)	150	150	165	165	150	165
Maximum Power (dBm)	2.39	2.88	3.03	0.88	3.64	5.74
Minimum Power (dBm)	-12.92	-17.83	-17.07	-21.77	-18.18	-18.66
Average Power (dBm)	-3.1	-2.82	-3.35	-3.88	-3.06	-2.17
Max/Min Ratio (dB)	15.3	20.71	20.09	22.65	21.82	24.4
Max/Avg Ratio (dB)	5.42	5.29	6.04	4.55	6.13	7.1
Min/Avg Ratio (dB)	-9.89	-15.42	-14.06	-18.1	-15.69	-17.29
Average Gain (dB)	-3.03	-2.42	-3.01	-3.68	-2.49	-1.37
Upper Hem. PRP (dBm)	-6.22	-5.97	-6.7	-6.04	-5.21	-4.47
Lower Hem. PRP (dBm)	-5.18	-4.36	-4.67	-6.83	-5.45	-4.04
Efficiency (%)	49.8	57.33	50.01	42.9	56.35	73.01

Fig-3